

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1. (Currently Amended) An image processing apparatus comprising:

~~encoding means for executing predetermined sequence transformation for an input image and bit-plane-encoding an obtained transform coefficient;~~

storing means for storing encoded data obtained by executing predetermined sequence transformation and bit-plane-encoding for an input image ~~said encoding means;~~

recognition means for recognizing a first image quality of the image to be displayed by a predetermined display device;

output means for reading out, from said storing means, data necessary to reconstruct an image having a predetermined image quality in the encoded data and outputting the data;

decoding means for decoding the output encoded data; and

adjustment means for adjusting the image decoded by said decoding means to make an image quality of the image match the first image quality,

wherein said recognition means instructs said output means to read out encoded data corresponding to a decoded image having a second image quality in the ~~held stored~~ encoded data on the basis of a ~~predetermine~~ predetermined condition, and

said adjustment means adjusts the image obtained by decoding, by said decoding means, the encoded data output by said output means, to make an image quality of the image to be displayed by said display device match the first image quality.

2. (Original) The apparatus according to claim 1, wherein said adjustment means adjusts an image output on the basis of a difference between the first image quality recognized by said recognition means and the second image quality obtained by said decoding means to make an image quality of the image match the first image quality.

3. (Currently Amended) The apparatus according to claim 1, wherein the first image quality is ~~the~~ a resolution of the image to be displayed.

4. (Original) The apparatus according to claim 1, wherein the second image quality is a resolution 2 x 2 times that of the image to be displayed.

5. (Original) The apparatus according to claim 1, wherein the second image quality is a resolution not less than 2 x 2 times that of the image to be displayed.

6. (Currently Amended) The apparatus according to claim 1, wherein an image having a resolution equal to or higher than the resolution is an image having a resolution equal to or lower than a highest resolution displayable by the encoded data ~~held~~ by stored in said storing means.

7. (Original) The apparatus according to claim 4, wherein the encoded data output by said output means corresponds to all or some data of each bit plane generated by the bit-plane-encoding in the encoded data corresponding to the second image quality.

8. (Original) The apparatus according to claim 5, wherein the encoded data output by said output means corresponds to all or some data of each bit plane generated by the bit-plane-encoding in the encoded data corresponding to the second image quality.

9. (Original) The apparatus according to claim 6, wherein the encoded data output by said output means corresponds to all or some data of each bit plane generated by the bit-plane-encoding in the encoded data corresponding to the second image quality.

10. (Original) The apparatus according to claim 1, wherein the sequence transformation is discrete wavelet transformation.

11. (Original) The apparatus according to claim 1, wherein in decoding the encoded data corresponding to the second image quality, said decoding means stops decoding at a predetermined bit plane for encoded data which is not related to the first image quality.

12. (Original) The apparatus according to claim 1, wherein said decoding means receives encoded data obtained by segmenting the image to be encoded into at least

one rectangular region and independently encoding the rectangular region and sequentially outputs a partial image corresponding to the rectangular region.

13. (Currently Amended) The apparatus according to claim 1, wherein ~~said encoding means outputs~~ the encoded data stored in said storing means is obtained by segmenting the received image into at least one rectangular region and independently encoding the rectangular region.

14. (Original) The apparatus according to claim 1, wherein said recognition means instructs said output means to output a code sequence related to the first image quality for a predetermined rectangular region in the code sequence independently encoded in units of rectangular regions and to output a code sequence related to the second image quality for remaining rectangular regions.

15. (Original) The apparatus according to claim 1, wherein said output means outputs a code sequence related to the first image quality for a predetermined rectangular region in the code sequence independently encoded in units of rectangular regions and outputs a code sequence related to the second image quality for remaining rectangular regions.

16. (Currently Amended) An image processing method comprising:

~~the encoding step of executing predetermined sequence transformation for an input image and bit-plane-encoding an obtained transform coefficient;~~

~~the a storing step, of storing encoded data obtained by executing predetermined sequence transformation and bit-plane-encoding for an input image in the encoding step in storage means;~~

~~the a recognition step, of recognizing a first image quality of the image to be displayed by a predetermined display device;~~

~~the an output step, of reading out, from the storage means, data necessary to reconstruct an image having a predetermined image quality in the encoded data and outputting the data;~~

~~the a decoding step, of decoding the output encoded data; and~~

~~the an adjustment step, of adjusting the image decoded in the said decoding step to make an image quality of the image match the first image quality,~~

~~wherein the said output step comprises the step of includes reading out encoded data corresponding to a decoded image having a second image quality in the held stored encoded data on the basis of a predetermine predetermined condition, and~~

~~the said adjustment step comprises the step of includes adjusting the image obtained by decoding, in the said decoding step, the encoded data output in the said output step, to make an image quality of the image to be displayed by the display device match the first image quality.~~

17. (Currently Amended) A program wherein

said program causes a computer to function as

~~encoding means for executing predetermined sequence transformation for an input image and bit-plane-encoding an obtained transform coefficient;~~

storing means for storing encoded data obtained by executing predetermined sequence transformation and bit-plane-encoding for an input image ~~said encoding means;~~

recognition means for recognizing a first image quality of the image to be displayed by a predetermined display device;

output means for reading out, from said storing means, data necessary to reconstruct an image having a predetermined image quality in the encoded data and outputting the data;

decoding means for decoding the output encoded data; and

adjustment means for adjusting the image decoded by said decoding means to make an image quality of the image match the first image quality,

wherein said recognition means instructs said output means to read out encoded data corresponding to a decoded image having a second image quality in the ~~held~~ stored encoded data on the basis of a ~~predetermine~~ predetermined condition, and

said adjustment means adjusts the image obtained by decoding, by said decoding means, the encoded data output by said output means, to make an image quality of the image to be displayed by said display device match the first image quality.

18. - 53. (Canceled)